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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/775,172 -	02/01/2001	See-Wai Yip	3209.2.2	7281	
21552	7590 07/22/2004		EXAM	EXAMINER	
MADSON & METCALF			NALVEN, A	NALVEN, ANDREW L	
GATEWAY 7 SUITE 900	FOWER WEST		ART UNIT	PAPER NUMBER	
15 WEST SOUTH TEMPLE			2134		
SALT LAKE	CITY, UT 84101		DATE MAILED: 07/22/200	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	
Office Action Summary		09/775,172	YIP ET AL.	
		Examiner	Art Unit	
		Andrew L Nalven	2134	
 Period for	The MAILING DATE of this communicati Reply	on appears on the cover sheet wi	th the correspondence addre	9SS
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Status				
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	,	☐ This action is non-final.		
3)□ S	Since this application is in condition for a closed in accordance with the practice u	allowance except for formal matt ınder <i>Ex parte Quayle</i> , 1935 C.D	ers, prosecution as to the n), 11, 453 O.G. 213.	nerits is
	n of Claims			
	Claim(s) <u>1-60</u> is/are pending in the appl a) Of the above claim(s) is/are v			
	a) Of the above claim(s) is/are v Claim(s) is/are allowed.	Mulurawii iloiti consideration.		
,	Claim(s) <u>1-60</u> is/are rejected.			
	Claim(s) is/are objected to.			
	Claim(s) are subject to restriction	n and/or election requirement.		
Application	on Papers		•	
	he specification is objected to by the E		It to the boother Francisco	
10)⊠ T	he drawing(s) filed on 01 February 200	<u>on</u> is/are: a)⊠ accepted or b) □	objected to by the Examine	er.
,	Applicant may not request that any objectio	n to the drawing(s) be held in abeya	nce. See 37 CFR 1.03(a).	R 1 121(d)
ا T ∐(11	Replacement drawing sheet(s) including the he cath or declaration is objected to by	the Examiner. Note the attache	d Office Action or form PTC	D-152.
Priority u	nder 35 U.S.C. § 119			
12) 🗌 A	Acknowledgment is made of a claim for	foreign priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
	☐ All b)☐ Some * c)☐ None of:			
	 Certified copies of the priority do 			
,	2.☐ Certified copies of the priority do	cuments have been received in A	Application No	
	3. Copies of the certified copies of	the priority documents have been	n received in this National S	stage
	application from the International		t received	
* S	ee the attached detailed Office action for	or a list of the certified copies no	t received.	
Attachment	(s)			
1) Notice	e of References Cited (PTO-892)	· —	Summary (PTO-413)	
2) Notice	e of Draftsperson's Patent Drawing Review (PTO nation Disclosure Statement(s) (PTO-1449 or PT	(-540)	o(s)/Mail Date Informal Patent Application (PTO	450\

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DETAILED ACTION

- 1. Claims 1-60 are pending.
- 2. Information disclosure statements submitted April 2, 2001 and July 10, 2002 have been received and considered.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-7, 10-26, 29-47, and 50-60 are rejected under 35 U.S.C. 103(a) as being unpatentable over Asay et al US Patent No. 5,903,882 in view of RSA Security's BSAFE Cert-C software as seen in press release "RSA Security Simplifies PKI Application Development."
- 5. With regards to claims 1, 10, and 41, Asay teaches the integrating of an server with a server-specific certificate authority for issuing server-specific certificates (Asay, column 10 lines 23-50 "reliance server"), receiving notice of a master certification authority issuing a master certificate to a subscriber (Asay, column 12 lines 17-21), issuing to the subscriber a server-specific certificate for use by the server (Asay, column 10 lines 45-50), and the existence of several servers with integrated certificate

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authorities (Asay, column 12 lines 23-28). Asay fails to teach the integrating of the certificate authority into an application. RSA Security teaches the integrating of the certificate authority into an application (RSA Security Press Release, Page 2, Paragraphs 3-4). At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to utilize RSA Security's method of integrating PKI functions into an application with Asay's reliance server for integrating transactions because it offers the advantage of simplifying and accelerating the development of PKI enabled applications and providing interoperability with all of the leading PKI platforms (RSA Security Press Release, Page 1, Paragraphs 1-3).

- 6. With regards to claims 2, 11, 16, 30, 35, 42, 51 and 56 Asay as modified teaches the integrating of the application with a directory service for providing access to application-specific certificate for the application (RSA Security Press Release, Page 1 Paragraph 2, Asay column 14 lines 34-37, Figure 3).
- 7. With regards to claims 3, 22, and 43, Asay as modified teaches the directory service comprising one of a LDAP service, an X.500 directory, and a database (Asay column 14 lines 34-37).
- 8. With regards to claims 4, 12, 17, 23, 31, 44, 52 and 57, Asay as modified teaches the storing of the application-specific certificates in the certificate repository of the directory service (RSA Security Press Release, Page 1 Paragraph 2, Asay column 14 lines 34-37).
- 9. With regards to claims 5, 13, 24, 32, 36, 45 and 53, Asay as modified teaches the receiving notice of the master certification authority revoking the master certificate of

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the subscriber (Asay, column 15 lines 57-60) and the revoking of the application-specific certificate of the subscriber corresponding to the revoked master certificate (Asay, column 15 lines 57-67, RSA Security Press Release, Page 1 Paragraph 2).

- 10. With regards to claims 6,14, 25, 33, 37, 46, and 54 Asay as modified teaches the storing of the revoked application-specific certificate in a certificate revocation list (Asay, column 23 lines 48-50).
- 11. With regards to claims 7, 15, 18, 20, 26, 34, 38, 40, 47, 55, 58 and 60, Asay as modified teaches the integrating of the application with a registration authority for registering subscribers and revoking subscribers' certificates (Asay, column 10 lines 25-29), in response to a subscriber being registered issuing an application-specific certificate to the subscriber (Asay, column 10 lines 29-36, RSA Security Press Release, Page 2, Paragraphs 3-4), and in response to a subscriber's certificate being revoked revoking the application-specific certificate of the subscriber (Asay, column 15 lines 57-67, RSA Security Press Release, Page 1 Paragraph 2).
- 12. With regards to claims 19, 29, 39, 50 and 59, Asay teaches the integrating a plurality of servers with a server-specific certificate authority for issuing server-specific certificates (Asay, column 10 lines 23-50 "reliance server", column 12 lines 23-28), receiving notice of a registration authority registering subscribers (Asay, column 10 lines 29-36), and issuing to the subscriber a server-specific certificate for use by the server (Asay, column 10 lines 45-50). Asay fails to teach the integrating of the certificate authority into an application. RSA Security teaches the integrating of the certificate authority into an application (RSA Security Press Release, Page 2, Paragraphs 3-4). At

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the time the invention was made, it would have been obvious to a person of ordinary skill in the art to utilize RSA Security's method of integrating PKI functions into an application with Asay's reliance server for integrating transactions because it offers the advantage of simplifying and accelerating the development of PKI enabled applications and providing interoperability with all of the leading PKI platforms (RSA Security Press Release, Page 1, Paragraphs 1-3).

With regards to claim 21, Asay teaches the integrating of an server with a server-13. specific certificate authority for issuing server-specific certificates (Asay, column 10 lines 23-50 "reliance server"), receiving notice of a master certification authority issuing a master certificate to a subscriber (Asay, column 12 lines 17-21), issuing to the subscriber a server-specific certificate for use by the server (Asay, column 10 lines 45-50), and a directory service integrated with the server and configured to provide access to server-specific certificates (Asay column 14 lines 34-37). Asay fails to teach the integrating of the certificate authority into an application. RSA Security teaches the integrating of the certificate authority into an application (RSA Security Press Release, Page 2, Paragraphs 3-4). At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to utilize RSA Security's method of integrating PKI functions into an application with Asay's reliance server for integrating transactions because it offers the advantage of simplifying and accelerating the development of PKI enabled applications and providing interoperability with all of the leading PKI platforms (RSA Security Press Release, Page 1, Paragraphs 1-3).

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14. Claims 8-9, 27-28, and 48-49 are rejected under 35 U.S.C. 103(a) as being unpatentable over Asay et al US Patent No. 5,903,882 and RSA Security's BSAFE Cert-C software as seen in press release "RSA Security Simplifies PKI Application Development" as applied to claim 1 above, and further in view of Otway US Patent No. 6,192,130. Otway discloses an information security subscriber trust authority transfer system.

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- 15. With regards to claims 8, 27, and 48, Asay as modified fails to disclose the encrypting of the private key of the application-specific certificate with the public key of the master certificate. Otway teaches disclose the encrypting of the private key of the application-specific certificate with the public key of the master certificate (Otway, column 6 lines 31-53). At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to utilize Otway's method of encrypting private keys with Asay as modified because it offers the advantage of helping ensure than an attacker cannot readily obtain a private key (Otway, column 1 lines 20-34).
- 16. With regards to claims 9, 28, and 49, Asay as modified teaches the decrypting of the private key associated with the application-specific certificate using the private key associated with the master certificate (Otway, column 8 lines 28-47) and authenticating the subscriber for the application using the decrypted private key (Asay, column 16 lines 21-28, column 1 lines 40-45).

Conclusion

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- 17. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 18. de Silva et al US Patent No. 6,615,347 discloses a digital certificate crossreferencing system.
- 19. de Silva et al US Patent No. 6,564,320 discloses the local hosting of digital certificate services.
- 20. RSA Data Security's "Understanding Public Key Infrastructure" white paper teaches a key management system.
- 21. RSA Security's press release "RSA Security Adds Java PKI Softare to its RSA BSAFE product line" discloses the integration of PKI components with applications.
- 22. MacTech article "RSA Introduces Keon Software" discloses afamily of enterprise PKI products for enterprise customers and developers.
- 23. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew L Nalven whose telephone number is 703 305 8407. The examiner can normally be reached on Monday Thursday 8-6, Alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory Morse can be reached on 703 308 4789. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Andrew Nalven

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